

Script of the Created Tables and Stored Procedures

```
DROP TABLE BONUS cascade constraints;
DROP TABLE DEPT cascade constraints;
DROP TABLE EMP cascade constraints;
Drop table FilmCategory cascade constraints;
Drop table FilmTitles cascade constraints;
Drop table Actors cascade constraints;
Drop table FilmActors cascade constraints;
Drop table FilmCopies cascade constraints;
Drop table Members cascade constraints;
Drop table Rentals cascade constraints;
Drop table SALGRADE;
```

```
CREATE SEQUENCE REGISTERED_USER_SEQ
  START WITH 1
  INCREMENT BY 1
  NOMAXVALUE;
```

```
CREATE TABLE REGISTERED_USER
(
  USER_ID NUMBER(10,0) NOT NULL,
  FIRST_NAME VARCHAR2(30),
  LAST_NAME VARCHAR2(30),
  PASSWORD_ VARCHAR2(32),
  EMAIL VARCHAR2 (80),
  SUBSCRIBED NUMBER(1) DEFAULT 0 ,
  CONSTRAINT PK_REG_USER PRIMARY KEY(USER_ID)
);
```

```
CREATE TRIGGER REGISTERED_USER_TRG
  BEFORE INSERT ON REGISTERED_USER
  FOR EACH ROW
BEGIN
  :NEW.USER_ID := REGISTERED_USER_SEQ.NEXTVAL;
END;
```

```
CREATE SEQUENCE ADMIN_SEQ
  START WITH 1
  INCREMENT BY 1
  NOMAXVALUE;
```

```
CREATE TABLE ADMIN_
(
  ADMIN_ID NUMBER(10,0) NOT NULL,
  FIRST_NAME VARCHAR2(30),
  LAST_NAME VARCHAR2(30),
  PASSWORD_ VARCHAR2(32),
  EMAIL VARCHAR2 (80),
  SALARY NUMBER(10,0),
  SSN NUMBER(15,0) NOT NULL UNIQUE,
```

```
HIRING_DATE DATE,  
DATE_OF_BIRTH DATE,  
CONSTRAINT PK_ADMIN PRIMARY KEY(ADMIN_ID)  
);
```

```
CREATE TRIGGER ADMIN_TRG  
BEFORE INSERT ON ADMIN_  
FOR EACH ROW  
BEGIN  
:NEW.ADMIN_ID := ADMIN_SEQ.NEXTVAL;  
END;
```

```
CREATE SEQUENCE AUTHOR_SEQ  
START WITH 1  
INCREMENT BY 1  
NOMAXVALUE;
```

```
CREATE TABLE AUTHOR  
(  
AUTHOR_ID NUMBER(10,0) NOT NULL,  
FIRST_NAME VARCHAR2(30),  
LAST_NAME VARCHAR2(30),  
PASSWORD_ VARCHAR2(32),  
EMAIL VARCHAR2 (80),  
SALARY NUMBER(10,0),  
SSN NUMBER(15,0) NOT NULL UNIQUE,  
HIRING_DATE DATE,  
DATE_OF_BIRTH DATE,  
CONSTRAINT PK_AUTHOR PRIMARY KEY(AUTHOR_ID)  
);
```

```
CREATE TRIGGER AUTHOR_TRG  
BEFORE INSERT ON AUTHOR  
FOR EACH ROW  
BEGIN  
:NEW.AUTHOR_ID := AUTHOR_SEQ.NEXTVAL;  
END;
```

```
CREATE SEQUENCE ARTICLE_SEQ  
START WITH 1  
INCREMENT BY 1  
NOMAXVALUE;
```

```
CREATE TABLE ARTICLE  
(  
ARTICLE_ID NUMBER(10,0) NOT NULL,  
CATEGORY_ VARCHAR2(40) NOT NULL,  
NAME_ VARCHAR2(100) NOT NULL,  
DESCRIPTION VARCHAR2(4000) NOT NULL,  
AUTHOR_ID NUMBER(10,0),  
CONSTRAINT PK_ARTICLE PRIMARY KEY(ARTICLE_ID),  
CONSTRAINT FK_ARTICLE FOREIGN KEY(AUTHOR_ID) REFERENCES AUTHOR(AUTHOR_ID)  
);
```

```

CREATE TRIGGER ARTICLE_TRG
  BEFORE INSERT ON ARTICLE
  FOR EACH ROW
BEGIN
  :NEW.ARTICLE_ID := ARTICLE_SEQ.NEXTVAL;
END;

```

```

CREATE TABLE REG_USER_FAV_ARTICLE
(
  USER_ID NUMBER(10,0),
  FAVOURITE_ARTICLE VARCHAR2(80),
  CONSTRAINT PK_REG_FAV PRIMARY KEY (USER_ID, FAVOURITE_ARTICLE),
  CONSTRAINT FK_REG_FAVU FOREIGN KEY (USER_ID) REFERENCES REGISTERED_USER(USER_ID)
);

```

```

CREATE TABLE AUTHOR_ARTICLE_CATEGORY
(
  ARTICLE_CATEGORY VARCHAR2(80) NOT NULL,
  AUTHOR_ID NUMBER(10,0),
  CONSTRAINT PK_AUTH_ART_CAT PRIMARY KEY (ARTICLE_CATEGORY, AUTHOR_ID),
  CONSTRAINT FK_AUTH_ART_CAT FOREIGN KEY (AUTHOR_ID) REFERENCES AUTHOR(AUTHOR_ID)
);

```

```

CREATE TABLE MANAGE_
(
  ADMIN_ID NUMBER(10,0),
  USER_ID NUMBER(10,0),
  CONSTRAINT composite_PK PRIMARY KEY (ADMIN_ID, USER_ID),
  CONSTRAINT FK_MNG_ADMIN FOREIGN KEY (ADMIN_ID) REFERENCES ADMIN_(ADMIN_ID),
  CONSTRAINT FK_MNG_USER FOREIGN KEY (USER_ID) REFERENCES REGISTERED_USER(USER_ID)
);

```

```

CREATE TABLE ADD_TO_FAVOURITE
(
  USER_ID NUMBER(10,0) NOT NULL,
  ARTICLE_ID NUMBER(10,0) NOT NULL,
  CONSTRAINT composite_PK2 PRIMARY KEY (USER_ID, ARTICLE_ID),
  CONSTRAINT FK_ADD2FAV_ART FOREIGN KEY (ARTICLE_ID) REFERENCES ARTICLE(ARTICLE_ID),
  CONSTRAINT FK_ADD2FAV_USER FOREIGN KEY (USER_ID) REFERENCES REGISTERED_USER(USER_ID)
);

```

```

CREATE TABLE SUPERVISE
(
  ADMIN_ID NUMBER(10,0),
  AUTHOR_ID NUMBER(10,0),
  CONSTRAINT composite_PK3 PRIMARY KEY (ADMIN_ID, AUTHOR_ID),
  CONSTRAINT FK_SUPER_ADMIN FOREIGN KEY (ADMIN_ID) REFERENCES ADMIN_(ADMIN_ID),
  CONSTRAINT FK_SUPER_AUTH FOREIGN KEY (AUTHOR_ID) REFERENCES AUTHOR(AUTHOR_ID)
);

```

```

CREATE TABLE CONTROL
(
  ADMIN_ID NUMBER(10,0),
  ARTICLE_ID NUMBER(10,0),
  CONSTRAINT composite_PK4 PRIMARY KEY (ADMIN_ID ,ARTICLE_ID),
  CONSTRAINT FK_CTRL_ADMIN FOREIGN KEY (ADMIN_ID) REFERENCES ADMIN_(ADMIN_ID),
  CONSTRAINT FK_CTRL_ART FOREIGN KEY (ARTICLE_ID) REFERENCES ARTICLE(ARTICLE_ID)
);

```

```

CREATE OR REPLACE PROCEDURE GetMaxUserID(UID OUT NUMBER)

```

```

AS

```

```

BEGIN

```

```

  SELECT MAX(user_id)

```

```

  INTO UID

```

```

  FROM registered_user;

```

```

END;

```

```

create or replace PROCEDURE GET_USER_FAVORITES ( userId_proc IN NUMBER,
fav_art_proc OUT sys_refcursor)

```

```

AS

```

```

BEGIN

```

```

open fav_art_proc for

```

```

select art.NAME_ ,art.DESCRPTION

```

```

from add_to_favourite atf , article art

```

```

where atf.USER_ID = userId_proc and art.ARTICLE_ID = atf.ARTICLE_ID ;

```

```

END;

```